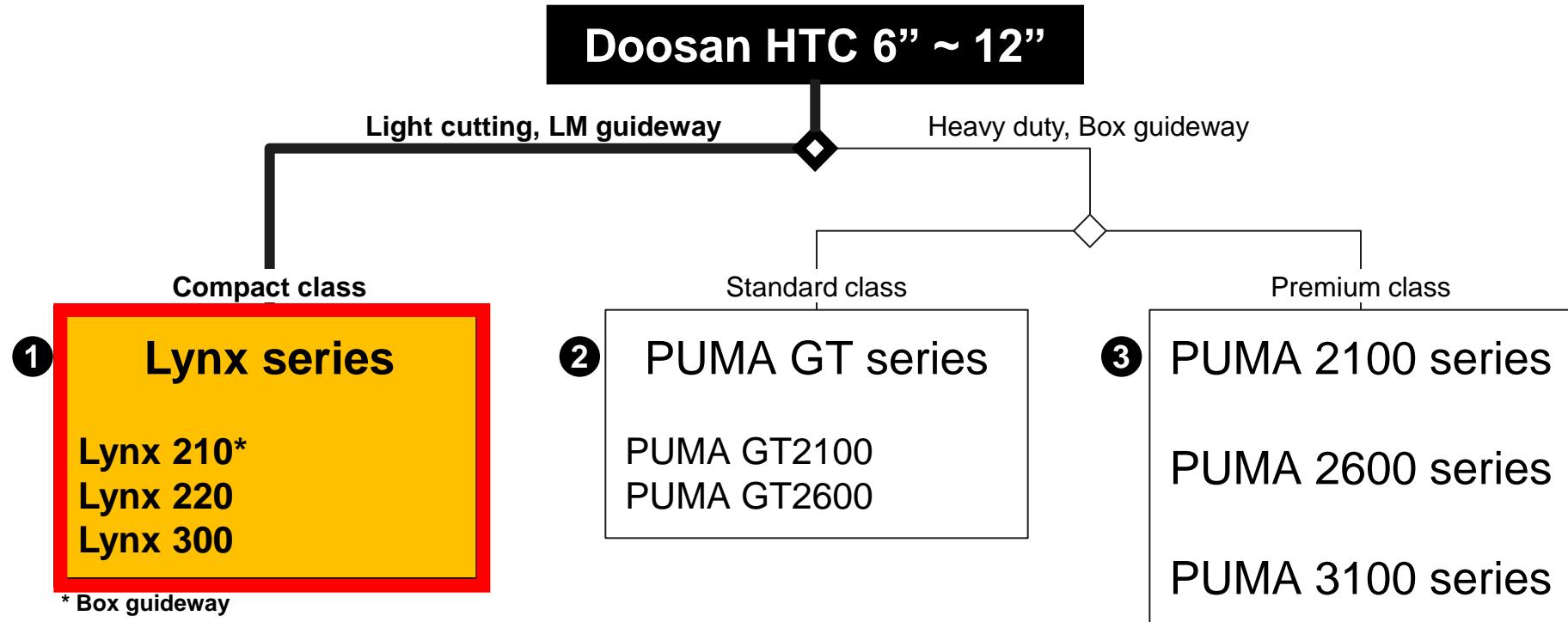


A-1. Horizontal TC

Chuck size (inch)	a	b	c	d	e	f	g				
	Small size HTC	Medium size HTC	Large size HTC	Multi-tasking HTC	Twin turret HTC	2spindle HTC	Aluminum Wheel turn HTC				
	Lynx series	PUMA GT series	PUMA series		PUMA SMX series	PUMA MX series	PUMA TT series	PUMA TL series	PUMA HT/QL series	PUMA AW series	
											
6	Lynx 210 Lynx 220A					MX1600	TT1500		HT230T		
8	Lynx 220B Lynx 220C	GT2100	PUMA 2100			MX2100	TT1800 TT2000	TL2000	H250T QL200H		
10	Lynx 300	GT2100B GT2600	PUMA 2600		SMX2500	MX2600	TT2500	TL2500	H310T QL300H		
12			PUMA 2600B PUMA 3100	PUMA 400A		SMX3100	MX3100				
15				PUMA 400B							
18					PUMA 600						
21				PUMA 400C PUMA 480							
24					PUMA 700						
32					PUMA 800						
Big bore				PUMA 480D (275mm)	PUMA 800B (375mm)						
Wheel dia.										AW560(20") AW660(24")	

a Small size HTC

Concept...



Lynx series _ Product line-up / Designation

Chuck size (inch)	Bar working dia. (mm)	Max. turning dia. (mm)	Max. turning length (mm)	Gang	Function					
					2 axis	M	S	MS	Y	SY
6	34	320	322	X/Z axis	X/Z axis	2 axis + Milling	2 axis + Sub spindle	2 axis + Milling + Sub spindle	2 axis + Milling + Y axis	2 axis + Milling + Y axis + Sub spindle
			542							
	45	320	280	X/Z axis	Lynx 220a	Lynx 220aL	Lynx 220G super	Lynx 210A	Lynx 220YA	Lynx 220LYA
			300							
	45	320	322							
			542							
	51	•M: 240 •S: 380 •Others: 300	290							
			525							
	51	•S: 525 •Others: 510	510							
8	51	280	300	Upgrade		Lynx 220MA			Lynx 220YA	Lynx 220LYA
			305			Lynx 220LMA	Lynx 220LSA	Lynx 220LMSA	Lynx 220LSYA	Lynx 220LYC
	65	•2ax: 320 •M: 240 •S: 380 •Others: 300	525			Lynx 210B	Lynx 220B	Lynx 220LB	Lynx 220MC	Lynx 220LSC
			2ax: 305			Lynx 220C	Lynx 220LC	Lynx 220LMC	Lynx 220LMSA	Lynx 220LYC
	65	•M/Y: 290 •Others: 300	510			Lynx 220D	Lynx 220LSA	Lynx 220LSC	Lynx 220LYC	Lynx 220LYC
			2ax/S: 525							
	10	•Others: 510	Others: 510							
10	76	•2ax: 450 •M: 370	2ax: 765	Lynx 220	Lynx 300	Lynx 300M				
			•M: 712							

Lynx 220

• [Suffix & Application] **M** : Milling, **A/B/C** : 6/8/8inch chuck size, **L** : Longer Z axis travel
S : Sub spindle, **Y** : Y axis w/ M

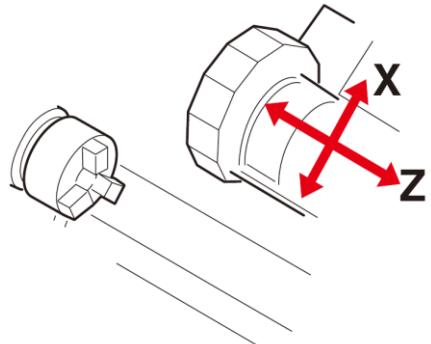
• [Nominal Size Chuck size] **220** : 152/203mm (6/8inch), **300** : 254mm (10inch)

Lynx : Brand

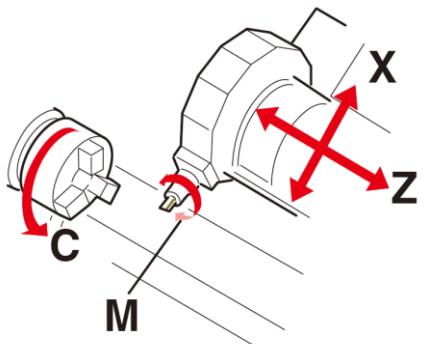


MODEL VARIATION BY FUNCTIONS

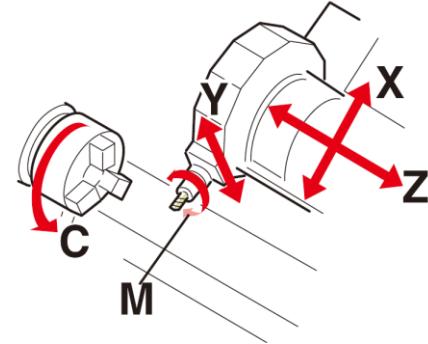
Turning



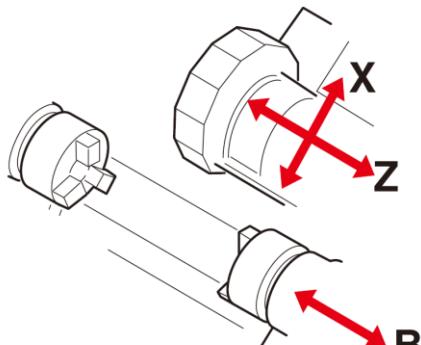
Mill-turning



Y-axis mill-turning



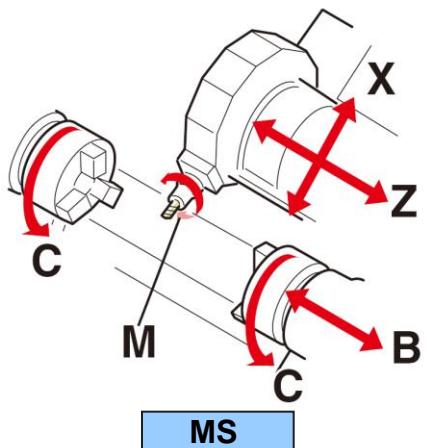
2-axis



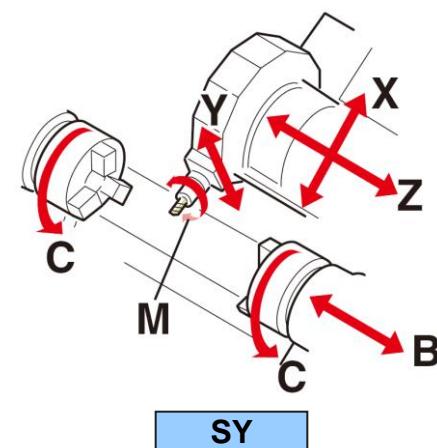
M

Y

S



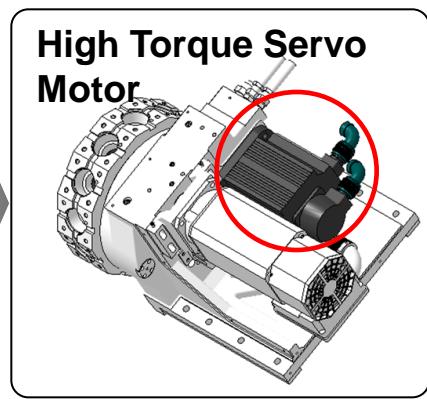
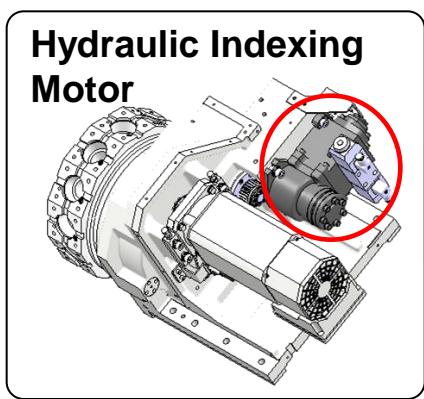
MS



SY

1 Lynx series Upgrade

New tool post with servo motor driven indexing for all Lynxes to improve reliability and productivity

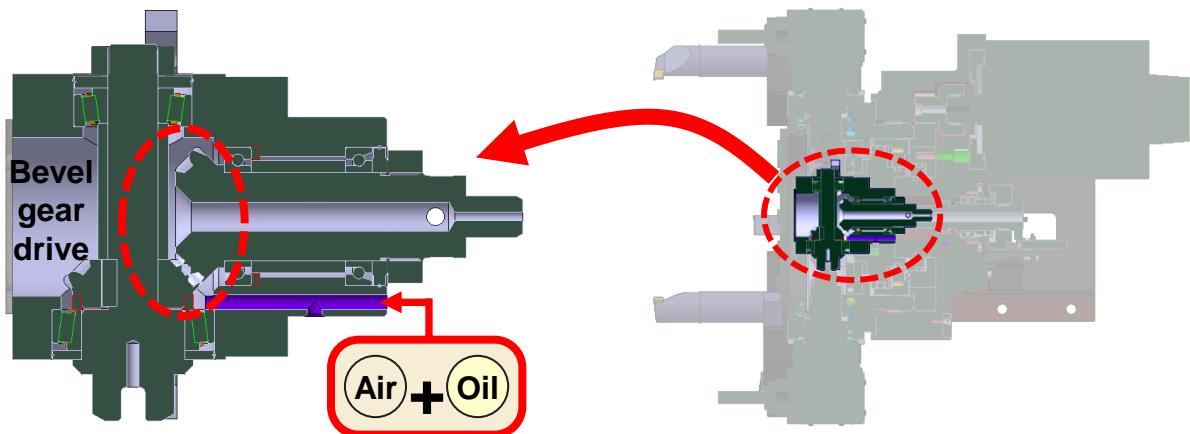


Model Group	Turret Indexing method	
	AS-IS	TO-BE
2axis	Hydraulic type	New Servo Type
M	Old Servo Type	
S/MS	Old Servo Type	
Y/SY	New Servo Type	

Model Group	TOOL DRIVE	
	AS-IS	TO-BE
2axis	N/A	N/A
M	Old type	
S/MS	Old type	
Y/SY	New Type (air+oil)	

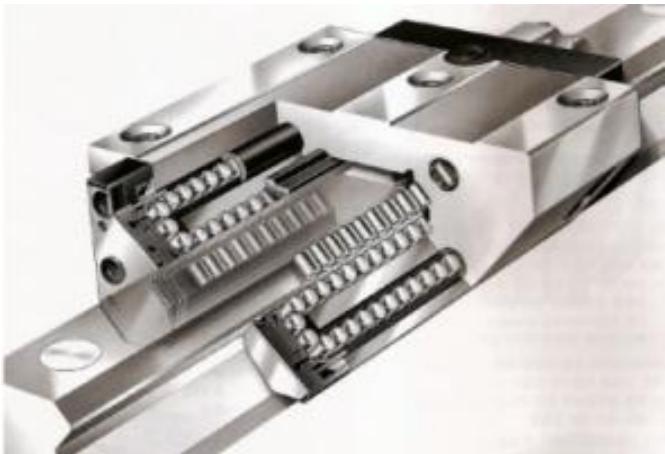
New tool drive device for M/Y version models

- Silent driving
- Air / oil lubrication and cooling to reduce thermal growth from the milling drive train and extend the life of the drive gears

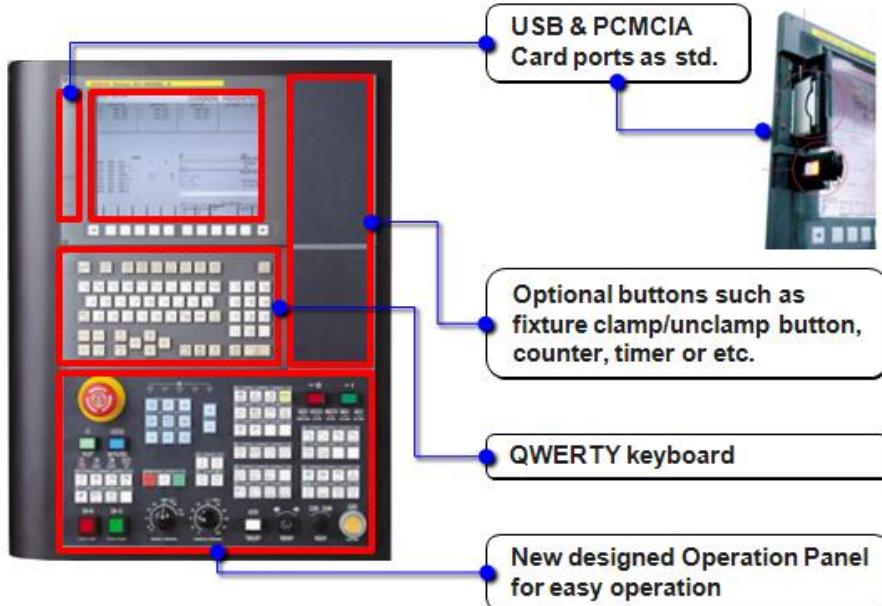


1 Lynx series Upgrade

Roller type LM guideway in all models & all axes for high rigidity & long life



New OP & Fanuc 0iTD for convenience



MODEL	LM guideway Type	
	AS-IS	TO-BE
Lynx 220/L	Ball	Roller
Lynx 220M/LM	Ball	Roller
Lynx 220LS/LMS	Roller	←
Lynx 220LY/LSY	Roller	←

2 Lynx 220Y/LY/LSY New

Sales points...



Compact Turning Center

- New addition of Y axis machine to Lynx 220M/LM & Lynx 220LMS for customers who require higher productivity from Lynx series or more additionally competitive choice as a compact class besides PUMA Y axis machine

1 Largest Y axis travel
105(± 52.5)mm compared
to the same class

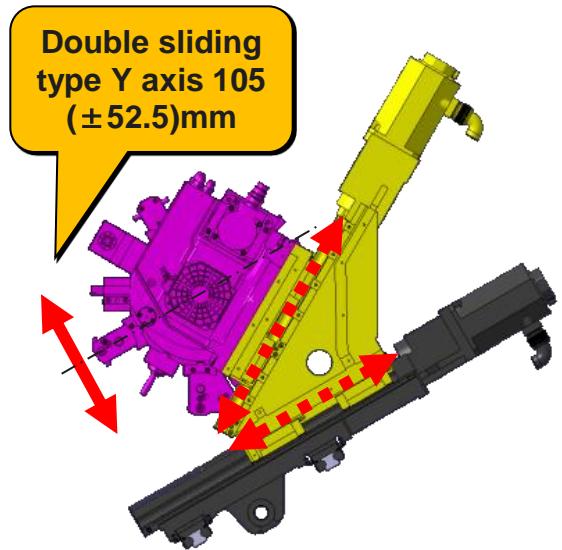
2 Roller type LM guideway in
X/Y/Z all axes for high
rigidity & long life

3 New OP & Fanuc 0iTD with
10.4" Color LCD & EZ-i for
convenience

1 Sales point

Largest Y axis travel 105(± 52.5)mm compared to the same class

Customers can choose proper size machine and get wide machining capacity. Because Lynx 220 Y series provide various line-up and 105(± 52.5)mm of Y-axis travel for off-center grooving, milling, tapping, and drilling.



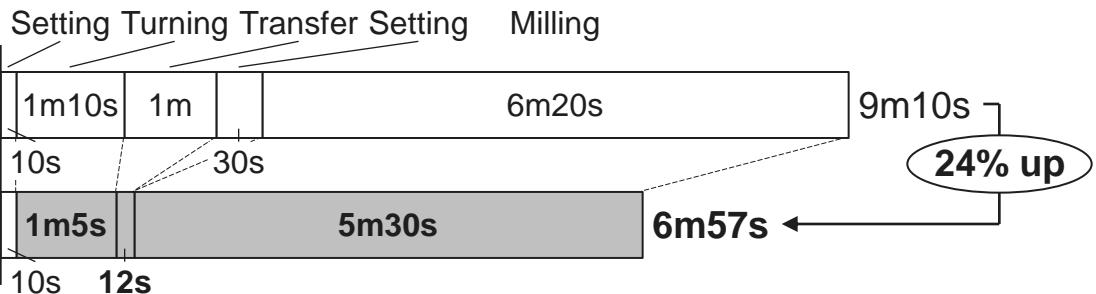
	Y 105mm	Y 100mm	Y 102mm	Y 105mm	Y 100mm	Y 140mm	Y 105mm
6 inch	L220YA L220LYA L220LSYA	QTN 100-II MY ST-10Y				NLX1500Y NLX1500SY	TC15Y/800 TC15Y/1350
8 inch	L220YC L220LYC L220LSYC	QTN 100-II MSY		P2100Y P2100LY P2100SY	NLX2000Y NLX2000SY	TC20Y/800 TC20Y/1350	B545Y B545YS
	Roller	Ball		P2100LSY	NLX2000SY	TC20Y/1350	B565YS
		LM Guideway				BOX Guideway	

One machine to obtain high productivity & accuracy, **One set-up** to save cutting time,
One operator to reduce labor cost



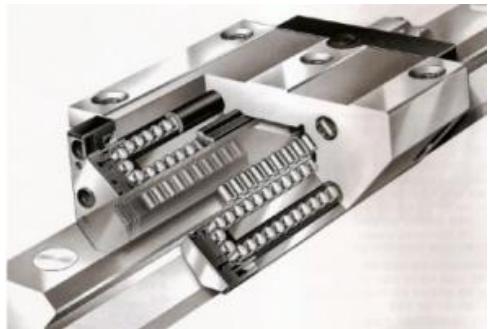
- Machinery Component
- Aluminum (AL7075) / Ø70 x 35 mm
- 16 tools

General process (TC+MC)
Lynx 220LSY

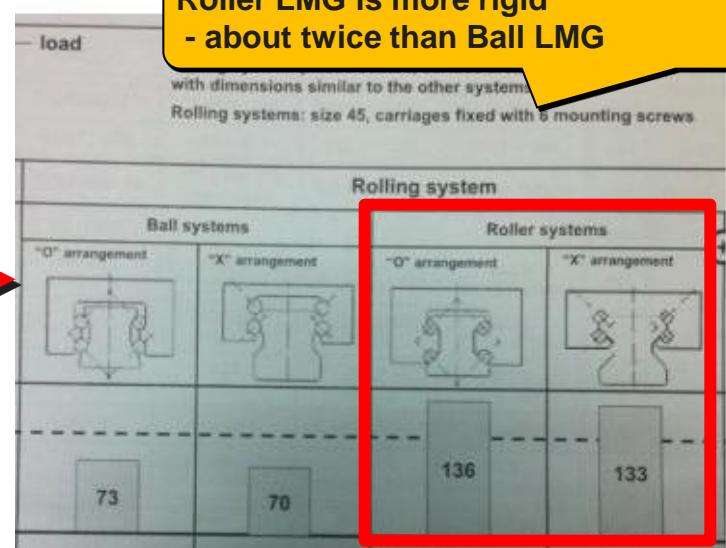


② Sales point

Roller type LM guideway in X/Y/Z all axes for high rigidity & long life



	DOOSAN	Mazak	HAIAS	DOOSAN	DMG	MORI SEIKI	CMZ	Biglia	
6 inch	L220YA L220LYA L220LSYA	QTN 100-II MY ST-10Y							
8 inch	L220YC L220LYC L220LSYC	QTN 100-II MSY							
	Roller	Roller	Ball						
	LM Guideway			Box Guideway					



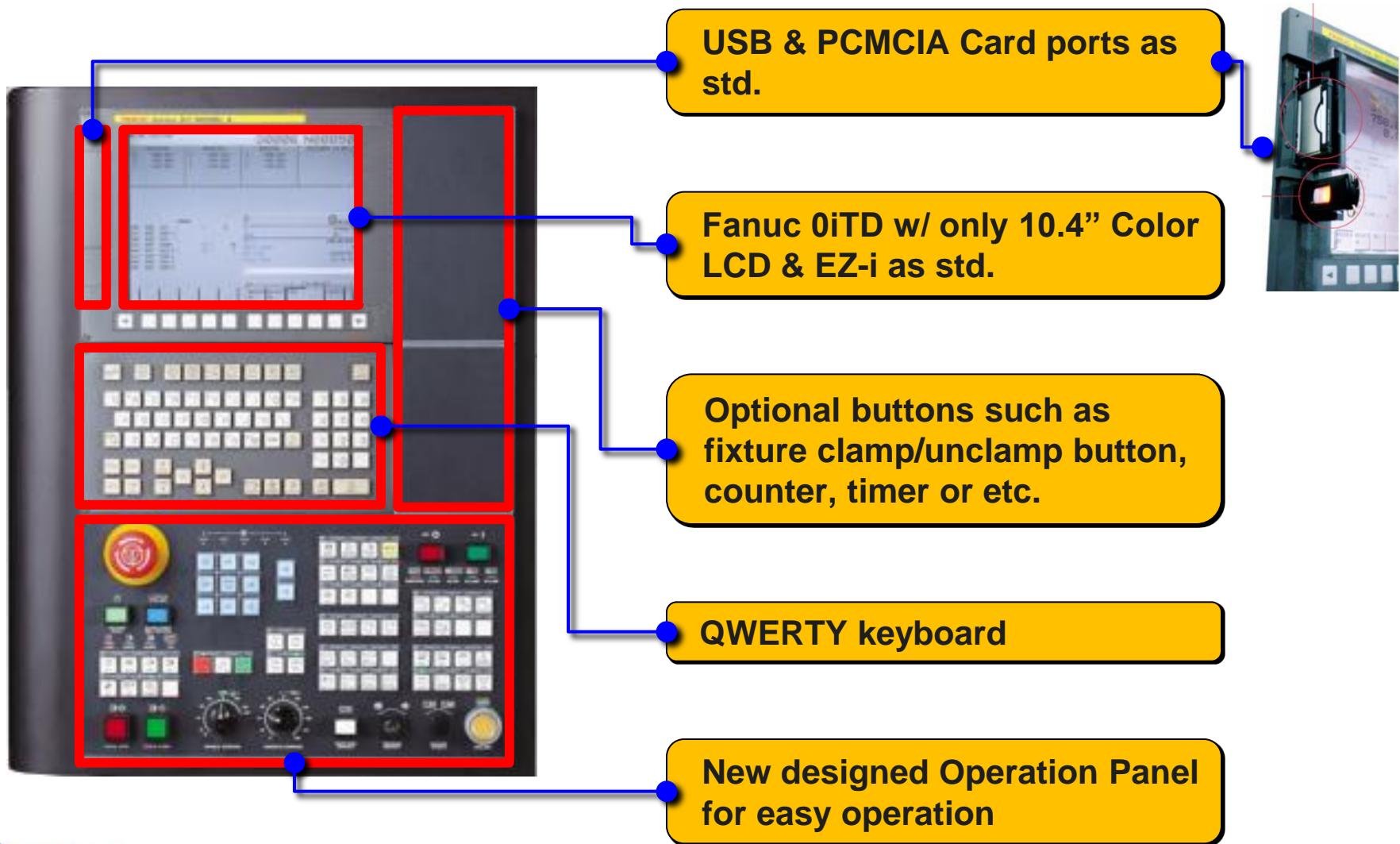
**Roller LMG is more rigid
- about twice than Ball LMG**

**Roller LMG's life is longer about
twice than Ball LMG**

X axis	Service Life
RG35C-ZB	22,930(km)
HG35C-ZB	10,146(km)
Y axis	Service Life
RG45C-ZA	88,345 (km)
HG45C-ZA	41,654 (km)
Z axis	Service Life
RG45C-ZA	116,088 (km)
HG45C-ZA	60,185 (km)

③ Sales point

New OP & Fanuc 0iTD with 10.4" Color LCD & EZ-i for convenience



1

2

3

Summary

